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ABSTRACT

A generic list of North American Chironomidae (Diptera) is presented to help aquatic biologists quickly locate important taxonomic references for the adults, larvae, and pupae of each genus. The list (in chart format) includes literature published through 1981. When recent literature is available, older references are omitted, since the purpose of the compilation is to help investigators initiate a literature search. Provided for each genus are references (keyed to adult males, adult females, pupae, and larvae), publication date, page number on which keys and/or descriptions begin, and selected comments. The compilation includes 7 subfamilies: 29 Tanypodinae, 5 Podonominae, 3 Telmatogetoninae, 9 Diamesinae, 4 Prodiamesinae, 66 Orthocladiinae, and 54 Chironominae (14 Tanytarsini, 1 Pseudochironomini, and 39 Chironomini). Subgenera are listed for some (not all) large genera. Because of space and time restrictions, a great deal of important European literature was not included. However, it is noted that a thorough literature search for most North American genera will usually include some European articles. The generic list is followed by a literature citation section and an index. (Author/JN)

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A GUIDE TO BASIC TAXONOMIC LITERATURE FOR THE GENERA OF NORTH AMERICAN CHIRONOMIDAE (DIPTERA) — ADULTS, PUPAE, AND LARVAE

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Abstract. - Simpson, Karl W., Center for Laboratories and Research, New York State Department of Health, Albany, New York 12201. A generic list of North American Chironomidae (Diptera) is presented, based on literature published through the end of 1981. For each genus, references are given (whenever possible) to keys and/or descriptions of adult males, adult females, pupae, and larvae. The compilation includes 170 genera in seven subfamilies: 29 Tanypodinae, 5 Podonominae, 3 Telmatogetoninae, 9 Diamesinae, 4 Prodiamesinae, 66 Orthocladiinae, and 54 Chironominae (14 Tanytarsini, 1 Pseudochironomini, and 39 Chironomini). Subgenera are listed for some (not all) large genera. The generic list is followed by a Literature Cited section and an index.

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INTRODUCTION

The main purpose of this compilation is to provide an updated listing of the genera of North American Chironomidae and to help aquatic biologists quickly locate important taxonomic references for the adults, larvae, and pupae of each genus. The diverse literature and numerous changes in nomenclature often make it difficult for the beginning taxonomist to verify generic names and/or to locate keys and descriptions for the various taxa. In the pages that follow, an attempt is made to cite at least one reference for each genus where keys and/or descriptions for the various stages can be found. References for adults are given first, followed by those for pupae and larvae. In general, the most complete reference for each stage precedes the others. When recent literature is available, older references are omitted, since the purpose of the compilation is to help investigators initiate a literature search. More comprehensive literature listings have been published by Fittkau et al. (1976) and Coffman and Walker (1977).

Due to restrictions of time and space, a great deal of important European literature has not been included. A thorough literature search for most North American genera usually will include some European articles. References given in parentheses are in German; these are cited when they contain substantially more information than is available in the English literature. For a listing of basic taxonomic literature for the European fauna, consult Reiss and Fittkau (1978, pp. 404-405).

The basic generic list was taken from Coffman (1978, pp. 370-376) and amended on the basis of subsequent literature, particularly recent contributions by Oliver, Roback, and Saether. The arrangement of subfamilies (and tribes of the Subfamily Chironominae) follows Saether (1977c). The page numbers listed to the right of the authors indicate where identification keys begin or, if these are not included, where the descriptions begin. Under the "KEYS" columns the stages included are indicated with an "X"; A = adults, P = pupae, L = larvae. When only one species is included in a reference, its name is given in the "COMMENTS" column to help with synonymizing. In references with no keys the state(s) described are given under "COMMENTS."

Some familiarity with general references for the family will help the reader to arrive at a generic name. At present, adult males and females of most genera can be determined by using the keys in Oliver (1981a) and Saether (1977c) respectively. These two references are cited repeatedly to help the reader determine quickly which genera are not included. Pinder's (1978) key for adult males is also quite useful and contains keys for the British species.

Generic determinations for the immature stages are more difficult. Comprehensive keys are not yet available as formal publications, and determinations are often possible only by using several keys. General

taxonomic references for pupae are particularly scarce. Coffman (1978, p. 355) provides a key to tribes, Roback (1957) included pupal keys for many of his taxa, and Pankratova (1977b) contains pupal keys for some Russian species. For the larvae some useful general references include Beck (1976), Bryce and Hobart (1972), Chernovskii (1949), Darby (1962), Hilsenhoff (1981), Mason (1973), Oliver et al. (1978), Pankratova (1977a,b), Roback (1957), and Simpson and Bode (1980).

The process of identifying North American midges will be greatly facilitated by generic keys for adults, pupae, and larvae of Holarctic Chironomidae, currently being prepared by numerous collaborators.

Most specimens encountered during freshwater studies will belong to one of four subfamilies: Tanypodinae, Diamesinae, Orthocladiinae, and Chironominae. The taxonomy of the Tanypodinae is relatively well known for both adults (Roback, 1971) and immatures (Roback, 1974-1981). Kowalyk (1981) used setal patterns on the larval head capsule to distinguish many genera. The Diamesinae lack any integrated references except the generic keys of Oliver (1981a) and Saether (1977c). The Orthocladiinae comprise the largest subfamily and until recently the most definitive references for adults (Brundin, 1956) and immatures (Thienemann, 1944) were in German. Generic keys for the larvae of this large and difficult subfamily are being prepared by Cranston (in press) and Mozley (in preparation). Within the Chironominae the Tribe Tanytarsini is in the greatest disarray. Sublette and Sublette are preparing a much needed revision of Nearctic material. Roback (1957) is still one of the most useful general references for the immature stages. For the Tribe Chironomini Townes (1945) remains extremely useful for identifying adult males to species.

An attempt has been made to include references published up to the end of 1981. Many changes will occur in the near future; revisions for some large and common genera are under way or nearing completion. Although portions of this list may become out-of-date rather quickly, other portions should remain useful for some time. The author welcomes comments concerning this volume's usefulness.

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Ablabesmyia Johannsen	Roback 1971	356	X				17	also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Beck & Beck 1966	319	X		X	X	14	larval key has 10 spp
	Roback 1957	28			X	X	4	as *Pentaneura monilis* group
	Simpson & Bode 1980	10				X	2	
	Kowalyk 1981	14				X	-	generic key
	Beck 1976	33				X	12	
Arctopelopia Fittkau	Roback 1971	252	X				3	also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1981	85			X		3	larvae of N. Amer. species unknown
	Kowalyk 1981	14				X	-	generic key; inseparable from *Thienemannimyia* & *Conchapelopia*
Brundinia Roback	Roback 1971	86	X				1	*B. eumorpha* as *Psectrotanypus*
	Roback 1978	168			X	X	1	*B. eumorpha*
	Kowalyk 1981	14				X	-	generic key
Cantopelopia Roback	Roback 1971	270	X				1	*C. gesta*; also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
Clinotanypus Kieffer	Roback 1971	15	X	X			6	
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Boesel 1974	429	X	X	X	X	1	*C. pinguis*
	Roback 1957	46			X	X	2	also generic key (PL) p 27
	Simpson & Bode 1980	10				X	-	generic key
	Kowalyk 1981	14				X	-	generic key
Coelotanypus Kieffer	Roback 1971	28	X	X			9	
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Boesel 1974	429	X	X	X	X	3	
	Roback 1957	47			X	X	2	larval differences of *C. tricolor* & *C. concinnus* desc; generic (PL) key p 27
	Roback 1974	10					3	PL differences in Tables 1-2, p 15
	Kowalyk 1981	14				X	-	generic key
Conchapelopia (*Conchapelopia*) Fittkau	Roback 1971	244	X					also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1981	85			X	X	11	synonymizes *Nesopelopia*
	Kowalyk 1981	14				X	-	generic key; inseparable from *Thienemannimyia* & *Arctopelopia*
Conchapelopia (*Helopelopia*) Roback	Roback 1971	244	X				2	*C. cornuticaudata* & *C. pilicaudata*
	Roback 1981	85			X	X	1	*C. cornuticaudata*
Conchapelopia (*Neropelopia*) Roback	Roback 1971	244	X				2	*C. americana* & *C. flavifrons* as *Arctopelopia*
	Roback 1981	85			X	X	2	*C. americana* & *C. flavifrons* + 2 varieties

TANYPODINAE
(continued)

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Djalmabatista Fittkau	Roback & Tennessen 1978	11					1	*D. pulcher*; PL desc
	Simpson & Bode 1980	10				X	-	generic key
	Kowalyk 1981	14				X	-	generic key
Guttipelopia Fittkau	Roback 1971	257	X				2	also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Oliver *et al.* 1978	3				X	1	*G. guttipennis*
	Roback 1957	30			X		1	*G. guttipennis* (as *Pentaneura*)
	Beck & Beck 1966	332					1	*G. currani*; APL desc
	Kowalyk 1981	14				X	-	generic key
Hudsonimyia Roback	Roback 1979	3	X				1	*H. karelena*; APL desc; gives extra couplet for 1971 key (A)
Krenopelopia Fittkau	Roback 1971	274	X				1	*K. narda*; generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
Labrundinia Fittkau	Roback 1971	276	X				6	also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Beck & Beck 1966	338	X		X	X	5	APL desc
	Oliver *et al.* 1978	3				X	1	unnamed sp
	Simpson & Bode 1980	10				X	1	*L. pilosella*
	Kowalyk 1981	14				X	-	generic key
	Beck 1976	32				X	5	
Larsia Fittkau	Roback 1971	259	X				6	also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Beck & Beck 1966	349	X	X	X	X	3	APL desc
	Oliver *et al.* 1978	3				X	1	unnamed sp
	Kowalyk 1981	14				X	-	generic key
Macropelopia (*Alotanypus*) Roback	Roback 1971	86	X	X			2	
	Oliver 1981a	433	X				-	generic key; as full genus
	Saether 1977c	33		X			-	generic key
	Roback 1978	153			X	X	3	*M. venusta* + 2 unnamed spp
Macropelopia (*Apsectrotanypus*) Fittkau	Roback 1971	86	X	X			3	
	Roback 1978	153			X	X	3	*M. johnsoni* + 2 unnamed spp
Macropelopia (*Macropelopia*) Thienemann	Roback 1971	86	X				1	*M. decedens*
	Oliver 1981a	433	X				-	generic key; as full genus
	Saether 1977c	33		X			-	generic key
	Roback 1978	153			X	X	1	*M. decedens*
	Kowalyk 1981	14				X	-	generic key

TANYPODINAE
(continued)

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Monopelopia Fittkau	Roback 1971	280	X				2	also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Beck & Beck 1966	335				X	2	APL desc
	Kowalyk 1981	14				X	-	generic key
Natarsia Fittkau	Roback 1971	86	X				2	
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1978	185			X	X	2	*N. baltimoreus* + 1 unnamed sp
	Oliver *et al.* 1978	3				X	1	*N. baltimoreus*
	Simpson & Bode 1980	10				X	1	*N. baltimoreus*
	Kowalyk 1981	14				X	-	generic key
Nilotanypus Kieffer	Roback 1971	281	X				1	*N. fimbriatus*; generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Beck & Beck 1966	345				X	1	*N. americanus* (=*fimbriatus*?); APL desc
	Oliver *et al.* 1978	3				X	1	*N. fimbriatus*
	Simpson & Bode 1980	10				X	1	*N. fimbriatus*
	Kowalyk 1981	14				X	-	generic key
Paramerina Fittkau	Roback 1971	271	X				5	also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Beck & Beck 1966	344					1	*P. anomala*; APL desc
	Oliver *et al.* 1978	3				X	1	*P. fragilis*
	Kowalyk 1981	14				X	-	generic key
Parapelopia Roback	Roback 1971	86	X				1	*P. serta*
	Oliver 1981a	433	X				-	generic key
Pentaneura Philippi	Roback 1971	269	X				2	also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Beck & Beck 1966	317					1	*P. inconspicua* as *P. inculta*; APL desc
	Simpson & Bode 1980	10				X	1	unnamed sp
	Kowalyk 1981	14				X	-	generic key
Procladius Skuse	Roback 1971	150	X				26	generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	48		X			7	also generic key (A) p 33
	Roback 1980	29			X	X	14	
	Simpson & Bode 1980	10				X	1	*P. sublettei*
	Kowalyk 1981	14				X	-	generic key
Psectrotanypus *(Derotanypus)* Roback	Roback 1971	86	X				3	
	Oliver 1981a	433	X				-	generic key; as subgenus of *Macropelopia*
	Saether 1977c	33		X			-	generic key; as full genus
	Roback 1978	178			X	X	3	*P. alaskensis* + 2 unnamed spp
	Oliver *et al.* 1978	3				X	1	*P. alaskensis*
Psectrotanypus *(Psectrotanypus)* Kieffer	Roback 1971	86	X				3	
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1978	173			X	X	3	1 unnamed sp
	Kowalyk 1981	14				X	-	generic key

TANYPODINAE
(continued)

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Rheopelopia Fittkau	Roback 1971	237	X				2	*R. acra* & *R. perda*; both as *Thienemannimyia*
	Roback 1981	85			X	X	5	*R. acra*, *R. perda* + 3 unnamed spp
Tanypus Meigen	Roback 1971	54	X	X			11	
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1977	65			X	X	8	
	Roback 1969	411			X	X	7	
	Simpson & Bode 1980	10				X	-	generic key
	Kowalyk 1981	14				X	-	generic key
Telopelopia Roback	Roback 1971	255	X				1	*T. okoboji*; generic key p 233
	Oliver 1981a	433	X				-	generic key
	Roback 1981	85			X	X	1	*T. okoboji*
Thienemannimyia Fittkau	Roback 1971	237	X				7	also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1981	85			X	X	3	*T. fusciceps* (P only), *T. norena* + *T. senata*
	Kowalyk 1981	14				X	-	generic key; inseparable from *Arctopelopia* & *Conchapelopia*
Trissopelopia Kieffer	Roback 1971	267	X				1	*T. ogemawi*; generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Kowalyk 1981	14				X	-	generic key
Xenopelopia Fittkau	Roback 1971	256	X				1	*X. tincta*; generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
Zavrelimyia Fittkau	Roback 1971	264	X	X			3	also generic key (A) p 233
	Oliver 1981a	433	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Beck & Beck 1966	343					1	*Z. sinuosa* as *Z. carneosa*; APL desc
	Roback 1957	28			X	X	1	*Z. sinuosa* as *Pentaneura carnea*
	Kowalyk 1981	14				X	-	generic key

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Boreochlus Edwards	Wirth & Sublette 1970	337	X	X			3	also generic keys (A) p 336
	Roback 1957	50			X	X	-	generic keys
	Oliver 1981a	433	X				-	generic key
	Chernovskii 1949	259				X	1	*B. thienemanni*
Lauterborniella Kieffer	Wirth & Sublette 1970	339	X	X			4	also generic keys (A) p 336
	Oliver 1981a	433	X				-	generic key
	Roback 1957	50			X	X	-	generic keys
	Saether 1969	8					2	APL desc
	Oliver *et al.* 1978	4				X	1	*L. brusti*
Paraboreochlus Thienemann	Coffman 1978 (Bruvdin 1966)	308					1	lists occurrence in Penna *P. minutissimus*; AP desc
Parochlus Enderlein	Wirth & Sublette 1970	352	X				1	*P. kiefferi*; generic key (A) p 336
	Oliver 1981a	433	X				-	generic key
	Roback 1957				X	X	-	generic keys
Trichotanypus Kieffer	Wirth & Sublette 1970	342	X	X			5	generic key (A) p 336; 1 pupal desc
	Oliver 1981a	433	X				-	generic key
	Oliver *et al.* 1978	4				X	2	*T. posticalis* + 1 unnamed sp
	Tilley 1978	243				X	1	unnamed sp

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Paraclunio Kieffer	Wirth 1949	175	X	X	X	X	2	generic keys (APL) p 156
	Hashimoto 1976	388	X				-	generic key
	Oliver 1981a	455	X				-	generic key
Telmatogeton Schiner	Wirth 1949	170	X				2	generic keys (APL) p 156
	Hashimoto 1976	388	X				-	generic key
	Oliver 1981a	455	X				-	generic key
Thalassomya Schiner	Wirth 1949	166	X	X	X	X	3	generic keys (APL) p 156
	Hashimoto 1976	388	X				-	generic key
	Wirth 1947	120	X	X			5	
	Wirth 1952	308					1	*T. bureni*; PL desc
	Oliver 1981a	455	X				-	generic key

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Borecheptagyia Brundin	Oliver 1981a	444	X				-	generic key; list 1 sp - *B. lurida*
	Saether 1977c	33		X			-	generic key
Diamesa Meigen	Hansen & Cook 1976	46	X				30	
	Oliver 1981a	436	X				-	generic key
	Saether 1977c	33		X			-	generic key
	(Pagast 1947)	464	X				31	also generic key (A) p 445
	" "	515			X		18	also generic key (P) p 505
	Saether 1969	21					3	APL desc
	Saether 1970	78					7	L desc; all unnamed
	Oliver *et al.* 1978	20				X	4	all unnamed
	Tilley 1978	243				X	7	
	Rossaro 1980	306				X	8	
	Chernovskii 1949	170				X	11	
Nesperodiamesa Sublette	Sublette 1967a	305					1	*N. sequax*; A desc
	Oliver 1981a	436	X				-	generic key
	Saether 1977c	33		X			-	generic key
Pagastia Oliver	Oliver 1959	49					2	A desc
	Oliver 1981a	436	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Mason 1973					X	1	as *Pseudodiamesa pertinax*
Potthastia Kieffer	Oliver 1981a	436	X				-	generic key
	Saether 1977c	33		X			-	generic key
	(Pagast 1947)	491	X				5	also generic keys: A p 445, P p 505
	Roback 1957	51			X	X	1	*P. longimanus*
	Oliver *et al.* 1978	20				X	2	*P. longimanus* + 1 unnamed sp
	Simpson & Bode 1980	10				X	1	*P. longimanus*
Protanypus Kieffer	Saether 1975a	383	X	X	X	X	5	
	Oliver 1981a	436	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	51			X	X	1	*P. morio*
Pseudodiamesa Goetghebuer	Oliver 1959	54	X	X			4	
	Oliver 1981a	436	X				-	generic key
	Saether 1977c	33		X			-	generic key
	(Pagast 1947)	445	X		X		-	generic keys: A p 445, P p 505
	Saether 1970	78					1	*P. pertinax*; L desc
	Roback 1957	51				X	-	generic key; as *Syndiamesa*
Pseudokiefferiella Zavřel	Saether 1977c	74		X			-	generic key
	Tilley 1978					X	1	unnamed sp

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(continued)

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Sympotthastia Pagast	Oliver 1981a	436	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Saether 1969	34					1	unnamed sp; P desc
	(Pagast 1947)	445	X				-	generic key
	" "	505			X		-	generic key

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Compteromesa Saether	Saether 1981b	194					1	*C. oconeensis*; A desc; erects genus
Monodiamesa Kieffer	Saether 1973b	675	X		X	X	5	
	Oliver 1981a	436	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Saether 1967	200				X	4	
	Oliver et al. 1978	20				X	1	*N. bathyphila*
Odontomesa Pagast	Oliver 1981a	436	X				-	generic key
	Saether 1977c	33		X			-	generic key
	(Pagast 1947)	445	X				-	generic key
	" "	505			X		-	generic key
	Roback 1957	51			X	X	1	*O. fulva*
Prodiamesa Kieffer	Oliver 1981a	436	X				-	generic key
	Saether 1977c	33		X			-	generic key
	(Pagast 1947)	497	X				3	also generic key (A) p 445
	" "	505			X		-	generic key
	Roback 1957	51			X	X	4	
	Chernovskii 1949	176				X	4	

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Abiskomyia Edwards	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Saether 1976	33	X			X	-	generic keys
	(Thienemann 1944)	553			X		2	*A. paravirgo, A. virgo*
	" "	607				X	1	*A. paravirgo*
Acricotopus Kieffer	(Hirvenoja 1973)	81	X		X	X	1	*A. lucens*
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
Baeoctenus Saether	Saether 1976	33	X	X			1	*B. bicolor*
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Saether 1977b	2358					1	*B. bicolor*; PL desc
Brillia Kieffer	Sublette 1967b	494	X				5	
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	63			X	X	5	
	Saether 1969						1	*B. retifinis*; APL desc
Bryophaenocladius Thienemann	Sublette 1970	75	X				3	
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Saether 1976	33	X	X			-	generic keys
	Saether 1973a	51					4	A desc
	Roback 1957	75			X	X	1	*B. furcatus* (as *Hydrobaenus*)
	(Thienemann 1944)	553			X		5	European spp
	" "	613				X	5	European spp; generic key (L) p 607
Camptocladius van der Wulp	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	95				X	1	*C. stercorarius* (as *Smittia*)
	(Thienemann 1944)				X		1	*C. stercorarius*
Cardiocladius Kieffer	Sublette 1967b	487	X				3	presents diagnoses in tabular form
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	34			X	X	1	*C. obscurus*?
Chaetocladius Kieffer	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Saether 1976	33	X	X			-	generic keys
	Saether 1969	93					1	*C. oliveri*; A desc
	(Thienemann 1944)	553			X		13	European spp; as *Dyscamptocladius*
	" "	607				X	10	European spp; as *Dyscamptocladius*
Chasmatonotus Loew	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Clinocladius Sublette	Oliver 1981a	444	X				-	generic key; lists 1 sp: *C. subparallelus*
	Sublette 1970	50					1	*C. subparallelus*; A desc
Clunio Haliday	Stone 1947	219	X				14	PL desc for *C. vagans*
	Wirth 1949	158	X		X	X	1	*C. marshalli*; also generic keys (APL)
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Hashimoto 1976	388	X				-	generic key
	Michailova 1980	9					3	European
Corynoneura Winnertz	Sublette 1967a	326	X	X			4	diagnoses in tabular form
	Boesel & Winner 1980	506	X	X			4	
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	60			X	X	3	
	Oliver *et al.* 1978	13				X	5	all unnamed spp
Cricotopus *(Cricotopus)* van der Wulp	(Hirvenoja 1973)	136	X	X	X	X	35	European fauna
	Oliver 1981a	444	X				-	generic key; no subgenera
	Saether 1977c	87		X			-	generic key
	LeSage & Harrison 1980	60	X	X	X	X	10	
	Roback 1957	68			X	X	10	subgenera not distinguished
	Oliver 1977	98					3	*bicinctus*-group; APL desc
	Oliver *et al.* 1978	13				X	5	
	Simpson & Bode 1980	11				X	3	
Cricotopus *(Isocladius)* Kieffer	(Hirvenoja 1973)	254	X	X	X	X	22	European fauna
	LeSage & Harrison 1980	60	X	X	X	X	1	*C. sylvestris*
	Oliver *et al.* 1978	13				X	2	*C. laricomalis*-group & *C. sylvestris*-group
	Simpson & Bode 1980	11				X	2	*C. intersectus*-group & *C. sylvestris*-group
	Roback 1957	68			X	X	6	subgenera not distinguished
Cricotopus *(Nostococladius)* Ashe & Murray	Ashe & Murray 1980	105					1	erect subgenus; *C. lygropis* - PL desc
	(Hirvenoja 1973)	136	X	X			1	*C. lygropis* as subgenus *Cricotopus*
	Wirth 1957	122					1	*C. nostocicola*; APL desc
	Roback 1957	68			X	X	2	*C. nostocicola*, *C. furcatus*; subgenus not distinguished
Diplocladius Kieffer	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	56			X	X	-	generic keys
	Oliver *et al.* 1978	13				X	1	*D. cultriger*
Doncricotopus Saether	Saether 1981a	223					1	*D. bicaudatus*; APL desc
Epicocladius Zavřel	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	95			X	X	1	*E. ephemerae* (as *Smittia*)
	Oliver *et al.* 1978	13				X	1	*E. flavens*

ORTHOCLADIINAE
(continued)

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Eretmoptera Kellogg	Wirth 1949	159	X				2	also generic key (A) p 156
	Oliver 1981a	388	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Hashimoto 1976	388	X				-	generic key
Eukiefferiella Thienemann	(Lehmann 1972)	353	X		X		20	European spp
	Saether & Halvorsen 1981	280					-	generic diagnoses (APL); redefine genus
	Oliver 1981a	444	X				-	generic key
	Oliver *et al.* 1978	13				X	7	4 spp unnamed
	Simpson & Bode 1980	11				X	3	3 species groups
	(Zavřel 1939)	3			X	X	20	European spp
	Chernovskii 1949	189				X	12	Russian spp; couplets 106-128
Eurycnemus van der Wulp	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Oliver *et al.* 1978	13				X	1	unnamed sp
	Murray & Ashe 1981	357					1	*E. crassipes*; PL desc
Euryhapsis Oliver	Oliver 1981b	711	X				3	also generic diagnoses (APL); *E. cilium* - PL desc
Freemaniella Saether	Saether 1976	33	X	X			-	generic keys
Georthocladius Strenzke	(Strenzke 1950)	233						
	Coffman 1978	373					-	lists occurrence in N. Amer.
Gymnometriocnemus Goetghebuer	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Saether 1969	127					2	A desc
	(Thienemann 1944)	553			X		2	European spp
	" "	607				X	5	European spp; *G. subnudus*, *G. terrestris* + 3 unnamed spp
Habrobaenus Saether	Saether 1977b	2354					1	*H. hudsoni*; AP desc
	Saether 1980b	115					1	*H. hudsoni*; A (female) desc
Halocladius *(Halocladius)* Hirvenoja	(Hirvenoja 1973)	114	X	X	X	X	5	European spp
	Oliver 1981a	444	X				-	generic key; no subgenera
	Saether 1977c	87		X			-	generic key; no subgenera

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(continued)

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Halocladius *(Psammocladius)* Hirvenoja	(Hirvenoja 1973)	109	X	X	X	X	1	*H. braunsi*; European
Heleniella Gowin	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Saether 1969	130					2	AP desc
	(Thienemann 1944)	553			X		1	*H. thienemanni*
	" "	607				X	1	*H. thienemanni*
Heterotanytarsus Spärck	Saether 1975b	268	X		X		4	1 larval desc, *H. perennis*
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	65			X	X	1	*H. apicalis* (as *Metriocnemus*)
Heterotrissocladius Spärck	Saether 1975c	5	X	X	X	X	12	also 5 unnamed spp ("A-E")
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Oliver *et al.* 1978	13				X	1	*H. changi*
Hydrobaenus Fries	Saether 1976	70	X	X	X	X	19	
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Oliver *et al.* 1978	13				X	1	unnamed sp
Krenosmittia Thienemann	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	(Wülker 1957)	420	X		X		2	*K. camptophleps, K. hispanica*
	Saether 1969	142					1	*K. cf. boreoalpina*; PL desc
	Oliver *et al.* 1978	13				X	1	unnamed sp
Lapposmittia Thienemann	(Brundin 1956)	56	X				-	generic key
	Saether 1977c	87		X			-	generic key
	(Thienemann 1944)	553			X		1	*L. parvibarba*
Limnophyes Eaton	Saether 1975d	1030	X				20	
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Cranston 1979	19					1	*L. globifer*; APL desc
	Chernovskii 1949	214				X	6	Russian spp
Maricladius Sublette	Oliver 1981a	444	X				-	generic key; lists 1 sp - *M. subterrimus*
	Sublette 1970	84					1	*M. subterrimus*; A (male) desc

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GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Mesocricotopus Brundin	(Brundin 1956)	52	X				1	*M. thienemanni*; generic key (A)
	Saether 1977c	87		X			-	generic key
	Saether 1976	37			X		-	generic key
Metriocnemus van der Wulp	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	65			X	X	11	larval couplets 5-13, except *M. clavaticornis*
	(Thienemann 1944)	553			X		23	European spp
	" "	607				X	14	European spp
Nanocladius *(Nanocladius)* Kieffer	Saether 1977a	6	X	X	X	X	12	synonymizes *Microcricotopus*
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key; includes subgenera
	Simpson & Bode 1980	11				X	5	
Nanocladius *(Plecopteracoluthus)* Steffan	Saether 1977a	6	X	X	X	X	2	
	Oliver 1981a	444	X				-	generic key; as full genus
	Saether 1977c	87		X			-	generic key; includes subgenera
Oliveridia Saether	Saether 1976	33	X	X	X	X	1	generic keys (APL); *O. tricornis*; as *Oliveria*
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key; as *Oliveria*
	Saether 1980d	399					-	changes generic name to *Oliveridia*
Oreadomyia Kevan & Cutten-Ali-Khan	Oliver 1981a	444	X				-	generic key; lists 1 sp - *O. albertae*
Orthocladius *(Eudactylocladius)* Thienemann	Soponis 1977	15	X	X	X	X	-	subgeneric keys
	Oliver 1981a	444	X				-	generic key, no subgenera
	Saether 1977c	87		X			-	generic key, includes subgenera
	Roback 1957				X	X	1	*O. dubitatus*; as *Hydrobaenus*
Orthocladius *(Euorthocladius)* Thienemann	Soponis 1977	15	X	X	X	X	-	subgeneric keys
	Saether 1977c	87		X			-	generic key, includes subgenera
	Oliver *et al.* 1978	13				X	2	unnamed spp
Orthocladius *(Orthocladius)* van der Wulp	Soponis 1977	20	X	X	X	X	28	also subgeneric keys (APL) p 15
	Saether 1977c	87		X			-	generic key, includes subgenera

ORTHOCLADIINAE
(continued)

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Orthocladius	Soponis 1977	15	X	X	X	X	-	subgeneric keys
(Pogonocladius)	Saether 1977c	87		X			-	generic key, includes subgenera
Brundin	Oliver *et al.* 1978	13				X	1	unnamed sp
Paracladius	(Hirvenoja 1973)	93	X	X	X	X	3	European spp
Hirvenoja	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
Paracricotopus	Saether 1980c	129					2	*P. niger* & *P. glaber*; APL desc
Thienemann &	Oliver 1981a	444	X				-	generic key
Harnisch	Saether 1977c	87		X			-	generic key
	(Thienemann 1944)	553			X		-	generic key; lists 3 spp
	" "	607				X	1	*P. niger* var *muscicola*
Parakiefferiella	Oliver 1981a	444	X				-	generic key
Thienemann	Saether 1977c	87		X			-	generic key
	(Wülker 1957)	411					6	APL desc; European spp
	Roback 1957	92			X	X	1	*P. coronata*, as *Eukiefferiella*
	Oliver *et al.* 1978	13				X	1	unnamed sp
	(Thienemann 1944)	553			X		3	European spp
	" "	607				X	2	European spp
Paralimnophyes	Saether 1976	33	X	X			-	generic keys
Brundin	Saether 1977c	87		X			-	generic key
Parametriocnemus	Oliver 1981a	444	X				-	generic key
Goetghebuer	Saether 1977c	87		X			-	generic key
	Saether 1969	108					4	APL desc
	Roback 1957	65			X	X	1	*P. lundbecki*, as *Metriocnemus*
	Oliver *et al.* 1978	13				X	1	*P. graminicola*
Paraphaenocladius	Oliver 1981a	444	X				-	generic key
Thienemann	Saether 1977c	87		X			-	generic key
	Saether 1969	123					1	*P. nasthecus*; AP desc
	(Thienemann 1944)	553			X		2	*P. impensus*, *P. irritus*
	" "	607				X	1	*P. impensus*
	Oliver *et al.* 1978	13				X	2	unnamed spp
Paratrichocladius	(Hirvenoja 1973)	88	X	X	X		2	European spp
Santos Abreu	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Saether 1969	77					1	*P. fontinalis*, as *Syncricotopus*; A desc
	Rossaro 1979	75					1	*P. rufiventris*; L desc
Paratrissocladius	Saether 1976	253	X				2	=*Parachaetocladius*; generic keys (APL) p 33
Zavřel	Oliver 1981a	444	X				-	generic key, as *Parachaetocladius*
	Saether 1977c	87		X			-	generic key

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GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Paratrichocladius Thienemann	(Brundin 1956)	52	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	95			X	X	1	*P. nudipennis*, as *Smittia*
	(Thienemann 1944)	553			X		5	European spp
	" "	607				X	-	generic key; 4 spp listed but not distinguished
Phycoidella Saether	Oliver 1981a	444	X				-	generic key
	Saether 1971a	1810					1	*P. dentolatens*; APL desc
	Saether 1977c	33		X			-	generic key
Platycladius Sublette	Oliver 1981a	444	X				-	generic key; lists 1 sp - *P. pleuralis*
	Sublette 1970						1	*P. pleuralis*; A (male) desc
Psectrocladius Kieffer	Sublette 1967b	531	X				7	
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	(Wülker 1956)	5	X		X		14	European spp
	Oliver *et al.* 1978	13				X	5	*P. simulans* + 4 unnamed spp
	Roback 1957	86			X	X	10	some spp are *Nanocladius*; 4 unnamed spp
	Chernovskii 1949	180				X	6	
Pseudorthocladius Goetghebuer	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Saether 1969	126					1	*P. dumicaudus*; A desc
	(Thienemann 1944)	553			X		1	*P. curtistylus*
	" "	607				X	1	*P. curtistylus*
	Soponis 1980	485					1	*P. macrostomus*; A desc
Pseudosmittia Goetghebuer	(Brundin 1956)	169	X				8	also generic key (A) p 52
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	(Thienemann 1944)	553			X		1	*P. simplex*
	" "	607				X	5	European spp
	Saether 1969	144					1	*P. setavena*; A desc
Psilometriocnemus Saether	Oliver 1981a	444	X				-	generic key
	Saether 1969	105					1	*P. triannulatus*; AP desc
Rheocricotopus Thienemann & Harnisch	(Lehmann 1969)	364	X		X		10	keys in German & English
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Saether 1969	85					3	APL desc
	Oliver *et al.* 1978	13				X	2	unnamed spp
Smittia Holmgren	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	94			X	X	1	*S. atterima*; all other spp in key now belong to other genera

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Symbiocladius Kieffer	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	56			X	X	-	generic keys
	Oliver *et al.* 1978	13				X	1	*S. equitans*
Synorthocladius Thienemann	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	75			X	X	1	*S. semivirens*, as *Hydrobaenus*
	Simpson & Bode 1980	11				X	1	*S.* nr. *semivirens*
	Oliver *et al.* 1978	13				X	1	unnamed sp
Tethymyia Wirth	Wirth 1949	160	X		X	X	1	*T. aptena*; generic keys (APL) p 150
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Hashimoto 1976	388	X				-	generic key
Thalassosmittia Strenzke & Remmert	Sublette 1967a	318					4	A desc, as *Saunderia*
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key; synonymizes *Saunderia*
	Roback 1957	95			X	X	3	*T. marina*, *T. pacifica* & *T. clavicornis*; all as *Smittia*
Thienemannia Kieffer	(Brundin 1956)	52	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	65				X	1	*T. clavaticornis*, as *Metriocnemus*
Thienemanniella Kieffer	Sublette 1970	89	X	X			4	
	Boesel & Winner 1980	506	X	X			2	
	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Roback 1957	60			X	X	2	
	Oliver *et al.* 1978	13				X	3	all unnamed spp
	Simpson & Bode 1980	11				X	2	
Tokunagaia Saether	Saether 1973a	56					2	erects genus; synonymizes *Adactylocladius*
	Saether 1977c	87		X			-	generic key
	Saether 1969	53					4	APL desc, as *Adactylocladius*
Trissocladius Kieffer	Saether 1976	165	X				2	also generic keys (AP) p 33
	Saether 1977c	87		X			-	generic key
	Saether 1980a	467					1	*T. brevipalpis*; AL desc
Tvetenia Kieffer	Saether & Halvorsen 1981	270					-	generic diagnoses (APL); synonymize *Eukiefferiella discoloripes* group
	(Lehmann 1972)	353	X		X		5	*verralli*-group & *E. saanensis*, as *Eukiefferiella*
	(Zavřel 1939)	3			?	X	8	as *Eukiefferiella discoloripes*-type
	Simpson & Bode 1980	11				X	2	*bavarica*-group & *discoloripes*-group, as *Eukiefferiella*
	Chernovskii 1949	189				X	5	couplets 99-105, as *Eukiefferiella*

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(continued)

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Zalutschia	Saether 1976	186	X	X	X	X	13	also generic keys (APL) p 33
Lipina	Oliver 1981a	444	X				-	generic key
	Saether 1977c	87		X			-	generic key
	Oliver et al. 1978	13				X	1	unnamed sp
	Soponis 1979	125					1	*Z. briani*; APL desc

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Cladotanytarsus Kieffer	Oliver 1981a	437	X				-	generic key
	Pinder 1978	142	X				4	British spp; also generic key (A) p 100
	Saether 1977c	140		X			-	generic key
	Roback 1957	129			X	X	5	as *Atanytarsus*; also generic keys (PL) p 125
	Oliver *et al.* 1978	11				X	3	all unnamed spp
Constempellina Brundin	Saether 1977c	140		X			-	generic key
	Roback 1957	127			X	X	1	*C. brevicosta*; as *Zavrelia*
	(Brundin 1948)	6			X	X	1	*C. brevicosta*
	Oliver *et al.* 1978	11				X	2	unnamed spp
	(Brundin 1947)	84	X				-	generic key
Corynocera Zetterstedt	Oliver 1981a	437	X				-	generic key
	Saether 1977c	140		X			-	generic key
	(Lehmann 1973)	398					2	*C. ambigua, C oliveri*; APL desc
	Oliver *et al.* 1978	11					1	unnamed sp
Lauterborniа Kieffer	Oliver 1981a	437	X				-	generic key
	Townes 1945	71	X				2	as *Tanytarsus (Tanytarsus) coracinus* gr
Lauxiella Kieffer	Oliver 1981a	437	X				-	generic key
	Saether 1977c	140		X			-	generic key
	Saether 1971a	1817					1	*L. cruscula*; APL desc
Micropsectra Kieffer	Oliver 1981a	437	X				-	generic key
	Pinder 1978	142	X				10	British spp; also generic key (A) p 100
	Saether 1977c	140		X			-	generic key
	Säwedal 1976	110	X		X		9	*notescens*-group; Palearctic spp
	Säwedal 1979	136	X				1	*M. brundini*; addendum to 1976 key
	Roback 1957	135			X	X	6	as *Calopsectra*, group *Micropsectra*
	Oliver *et al.* 1978	11				X	2	unnamed spp
	Säwedal & Willassen 1980	56					1	*M. borealis*; AP desc
	Säwedal 1981	27					1	*M. tori*; APL desc
Neozavrelia Goetghebuer	(Fittkau 1954)	166	X	X			4	European spp
	Saether 1977c	140		X			-	generic key
Paratanytarsus Bause	Oliver 1981a	437	X				-	generic key
	Pinder 1978	146	X				9	British spp; also generic key (A) p 100
	Reiss & Säwedal 1981	84	X		X		20	Palearctic spp; pupal key p 89, 16 spp
	Saether 1977c	140		X			-	generic key
	Roback 1957	128			X	X	8	as *Calopsectra*, group *Paratanytarsus*; generic keys (PL) p 125
	Oliver *et al.* 1978	11				X	2	unnamed spp
	Säwedal & Langton 1977	167					1	*P. tenellulus*; AP desc

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Rheotanytarsus Bause	Oliver 1981a	437	X				-	generic key
	(Lehmann 1971)	352	X				8	European spp; keys in German & English
	Pinder 1978	148	X				6	British spp
	Saether 1977c	140		X			-	generic key
	Roback 1957	125			X	X	-	generic keys
	Simpson & Bode 1980	15				X	2	species groups
Stempellina Bause	Oliver 1981a	437	X				-	generic key
	Pinder 1978	150	X				1	*S. bausei*; also generic key (A) p 100
	Saether 1977c	140		X			-	generic key
	(Brundin 1948)	6			X	X	5	European spp
	Roback 1957	127			X	X	2	
	Oliver *et al.* 1978	11				X	3	all unnamed spp
	Webb 1969	99	X				3	also 1 P desc - *S. ranota*
Stempellinella Brundin	Pinder 1978	150	X				3	British spp; also generic key (A) p 100
	Saether 1977c	140		X			-	generic key
	(Brundin 1948)	6			X	X	2	European spp
	Oliver *et al.* 1978	11				X	1	unnamed spp
Tanytarsus van der Wulp	Oliver 1981	437	X				-	generic key
	(Reiss & Fittkau 1971)	89	X				53	European spp; keys in German & English
	Pinder 1978	150	X				28	British spp; also generic key (A) p 100
	Saether 1977c	140		X			-	generic key
	Roback 1957	131			X	X	11	as *Calopsectra*, group *Calopsectra*; generic keys (PL) p 125
	Oliver *et al.* 1978	11				X	3	all unnamed spp
	Simpson & Bode 1980	15				X	3	*T. coffmani* + 2 species groups
	Roback 1975	71					1	*T. coffmani*; APL desc
Thienemanniola Kieffer	Saether 1977c	140		X			-	generic key
	(Lehmann 1973)	'81					1	*T. ploenensis*; APL desc
Zavrelia Kieffer	Oliver 1981a	437	X				-	generic key
	Pinder 1978	158	X				1	*Z. pentatoma*
	Saether 1977c	140		X			-	generic key
	(Brundin 1948)	6			X	X	1	*Z. pentatoma*
	Roback 1957	127				X	1	*Z. pentatoma*

CHIRONOMINAE

PSEUDOCHIRONOMINI

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Pseudochironomus Malloch	Saether 1977a	60	x		x	x	9	
	Oliver 1981a	437	x				-	generic key
	Saether 1977c	33		x			-	generic key; erects tribe

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Acalcarella Shilova	Saether 1977a	89	X		X	X	-	generic keys
	Saether 1977c	33		X			-	generic key
	Oliver *et al.* 1978	5				X	1	unnamed sp
Beckidia Saether	Saether 1977a	120	X			X	3	as *Beckiella*; generic keys (APL) p 89
	Saether 1979	315					-	synonymizes *Beckiella*
Chernovskiia Saether	Saether 1977a	108	X	X	X	X	2	also generic keys (APL) p 89
	Saether 1977c	33		X			-	generic key
Chironomus Meigen	Townes 1945	116	X				22	as *Tendipes*; also generic key (A) p 12
	Lindeberg & Wiederholm 1979	105	X				25+	European spp
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	109			X	X	6	as *Tendipes (Tendipes)*
	(Geiger *et al.* 1978)	102				X	18	European spp
	Beck & Beck 1969a	3	X			X	4	
	Wülker *et al.* 1971	6					3	*C. staegeri, C. crassicaudatus, C. frommeri*; APL desc
	Sublette & Sublette 1974	1					2	*C. maturus, C. whitseli*; APL desc
Cladopelma Kieffer	Saether 1977a	89	X		X	X	-	generic keys
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Oliver *et al.* 1978	5				X	1	unnamed sp
Cryptochironomus Kieffer	Sublette 1964	129					10	A (+ some PL) desc
	Saether 1977a	89	X		X	X	-	generic keys
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Townes 1945	97	X				6	
	Curry 1958	431			X	X	4	
	Chernovskii 1949	99				X	17	
Cryptotendipes Lenz	Saether 1977a	97	X				10	also generic keys (APL) p 89
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	171		X			3	also generic key p 33
	Beck & Beck 1969b	294					1	*C. casuarius*; APL desc
	Oliver *et al.* 1978	5				X	2	unnamed spp
Cyphomella Saether	Saether 1977a	101	X				6	also generic keys (APL) p 89; some PL desc
	Saether 1977c	33		X			-	generic key

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Demicryptochironomus Lenz	Saether 1977a	133	X				6	also generic keys (APL) p 89
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Townes 1945	155	X				2	as *Harnischia (Harnischia)*
Dicrotendipes Kieffer	Townes 1945	102	X				10	as *Tendipes (Limnochironomus)*; generic key (A) p 12
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	109			X	X	4	as *Tendipes (Limnochironomus)*
	Webb 1972	76			X	X	6	
	Beck 1976	55				X	6	
Einfeldia Kieffer	Townes 1945	111	X				4	as *Tendipes (Einfeldia)*
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	109			X	X	1	*E. insolita* as *Tendipes*
	Oliver 1971	1591					1	*E. synchrona*; APL desc
	Oliver *et al.* 1978	5				X	3	*E. synchrona* + 2 unnamed spp
Endochironomus Kieffer	Townes 1945	64	X				2	as *Tanytarsus (Endochironomus)*; generic key p 12
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	119			X	X	2	as *Tanytarsus (Endochironomus)*
	Simpson & Bode 1980	13				X	2	
Gillotia Kieffer	Saether 1977a	133	X				2	also generic keys (APL) p 89
Glyptotendipes Kieffer	Townes 1945	136	X				13	3 subgenera; generic key (A) p 12
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Beck & Beck 1969a	3	X			X	2	
	Roback 1957	123			X	X	5	
	Simpson & Bode 1980	13				X	1	*G. lobiferus*
	Sublette & Sublette 1973	1					1	*G. barbipes*; APL desc
Goeldichironomus Fittkau	Fittkau 1965	209					1	*G. holoprasinus*; APL desc
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Beck & Beck 1969a	3	X			X	1	*G. holoprasinus*
Graceus Goetghebuer	Oliver 1981a	437	X				-	generic key
	Pinder 1978	100	X				1	*G. ambiguus*
	Saether 1977c	33		X			-	generic key
Harnischia Kieffer	Saether 1977a	89	X		X	X	-	generic keys
	Townes 1945	147	X				10	
	Beck & Beck 1969b	296					5	APL desc
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Oliver *et al.* 1978	5				X	1	*H. curtilamellata*
	Simpson & Bode 1980	13				X	1	*H. curtilamellata*

CHIRONOMINAE
CHIRONOMINI
(continued)

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Kieffarulus Goetghebuer	Townes 1945	102	X				1	*K. dux*; as *Tendipes (Kiefferulus)*
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	109			X	X	1	*K. tendipediformis*; as *Tendipes*
	Beck & Beck 1970	38					1	*K. dux*; PL desc
Lauterborniella Bause	Townes 1945	20	X				3	also generic key (A) p 12
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	107				X	3	also generic keys (PL) p 96
	Oliver *et al.* 1978	5				X	1	*L. agrayloides*
Microchironomus Kieffer	Saether 1977a	89	X		X	X	-	generic keys
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
Microtendipes Kieffer	Townes 1945	23	X				3	+ 3 varieties of *M. pedellus*; also generic key (A) p 12
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	108			X	X	3	also generic keys (PL) p 96
Nilodorum Kieffer	Saether 1977c	33		X			-	generic key
	Beck & Beck 1970	35					1	*N. devineyae*; PL desc
	Beck 1976	44				X	1	*N. devineyae*
Nilothauma Kieffer	Townes 1945	34	X				3	as *Kribioxenus*; generic key (A) p 12
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	96			X	X	1	*N. brayi*; as *Kribioxenus*
	Simpson & Bode 1980	13				X	1	*N. babiyi*
Omisus Townes	Townes 1945	27	X				1	*O. pica*; generic key (A) p 12
	Oliver 1981a	437	X				-	generic key
	Saether 1980b	118					1	*O. pica*; A (female) desc
	Beck & Beck 1970	29					1	*O. pica*; PL desc
	Beck 1976	44				X	1	*O. pica*
Pagastiella Brundin	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Oliver *et al.* 1978	5				X	1	*P. ostansa*
	Webb 1969	102					1	*P. ostansa*, as *Paralauterborniella*; APL desc
Parachironomus Lenz	Saether 1977a	89	X		X	X	-	generic keys
	Beck & Beck 1969b	284	X			X	8	
	(Lehmann 1970)	132	X				16	European spp; keys in German & English
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Beck 1976	53				X	8	
	Simpson & Bode 1980	13				X	2	

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Paracladopelma Harnisch	Jackson 1977	1326	X		X	X	13	
	Saether 1977a	89	X		X	X	-	generic keys
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
Paralauterborniella Lenz	Townes 1945	32	X				3	as *Apedilum*
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	96			X	X	1	*P. nigrohalteralis*
	Beck & Beck 1970	31					2	PL desc
	Oliver *et al.* 1978	5				X	1	*P. nigrohalteralis*
Paratendipes Kieffer	Townes 1945	27	X				6	also generic key (A) p 12
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	96			X	X	-	generic key
	Ward & Cummins 1978	272					1	*P. albimanus*; L desc
	Simpson & Bode 1980	13				X	1	*P. albimanus*
	Chernovskii 1949	128				X	4	
Pedionomus Subletta	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Beck 1976	44				X	1	*P. beckae*
	Subletta 1964	137					1	*P. beckae*; APL desc
Phaenopsectra Kieffer	Townes 1945	71	X				6	as *Tanytarsus (Tanytarsus)*
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	119			X	X	4	as *Tanytarsus (Tanytarsus)*; generic keys (PL) p 96
	Simpson & Bode 1980	13				X	2	
	Oliver *et al.* 1978	5				X	2	unnamed spp
Polypedilum (Pentapedilum) Kieffer	Townes 1945	61	X				3	also generic key (A) p 12
	Oliver 1981a	437	X				-	generic key; no subgenera
	Saether 1977c	33		X			-	generic key; includes subgenera
	Roback 1957	114			X	X	2	also generic keys (PL) p 96
Polypedilum (Polypedilum) Kieffer	Maschwitz 1976	45	X		X	X	20	
	Townes 1945	47	X				20	also generic key (A) p 12
	Saether 1977c	33		X			-	generic key; includes subgenera
	Roback 1957	114			X	X	5	also generic keys (PL) p 96
	Simpson & Bode 1980	13				X	2	
	Oliver *et al.* 1978	5				X	4	
Polypedilum (Tripodura) Townes	Townes 1945	37	X				15	also generic key (A) p 12
	Saether 1977c	33		X			-	generic key
	Roback 1957	114			X	X	3	also generic keys (PL) p 96
	Oliver *et al.* 1978	5				X	1	unnamed sp
	Simpson & Bode 1980	13				X	1	*P. nr. scalaenum*
Robackia Saether	Saether 1977a	123	X		X	X	3	also generic keys (APL) p 89
	Oliver *et al.* 1978	5				X	1	*R. demeijerei*

CHIRONOMINAE
CHIRONOMINI
(continued)

GENUS	REFERENCES	PAGE	KEYS				NUMBER OF SPECIES	COMMENTS
			A♂	A♀	P	L		
Saetheria Jackson	Jackson 1977	1326	X		X	X	3	1 unnamed sp
	Townes 1945	147	X				1	*S. tylus*; as *Harnischia (Cladopelma)*
Stenochironomus Kieffer	Townes 1945	85	X				10	also generic key (A) p 12
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	96			X	X	-	generic keys (PL)
	Beck & Beck 1970	33					3	PL desc
Stictochironomus Kieffer	Townes 1945	78	X				10	as *Tanytarsus (Stictochironomus)*; generic key (A) p 12
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	119			X	X	3	as *Tanytarsus (Stictochironomus)*; 2 unnamed spp
	Roback 1966	169					1	*S. annulicrus*; PL desc
Tribelos Townes	Townes 1945	66	X				5	as *Tanytarsus (Tribelos)*
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1957	119			X	X	2	as *Tanytarsus (Tribelos)*; generic key (PL) p 96
	Simpson & Bode 1980	13				X	1	*T. jucundus*
	Beck 1976	51				X	3	
Wirthiella Sublette	Sublette 1960	216					1	*W. modocensis*; A desc
Xenochironomus Kieffer	Townes 1945	92	X				5	also generic key (A) p 12
	Oliver 1981a	437	X				-	generic key
	Saether 1977c	33		X			-	generic key
	Roback 1963	235			X	X	5	
	Roback 1957	96			X	X	-	generic keys

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